PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP. 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
	(PCT Rule 44.1)				
1	Date of mailing (day/month/year) 2015				
Applicant's or agent's file reference UCSD1690-1WO	FOR FURTHER ACTION See paragraphs 1 and 4 below				
	International filing date (day/month/year) 10 September 2004 (10.09,2004)				
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA					
have been established and are transmitted herewith.	report and the written opinion of the International Searching Authority				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims	of the international application (see Rule 46):				
When? The time limit for filing such amendments is non search report.	mally two months from the date of transmittal of the international				
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Facsimile No.: +4					
For more detailed instructions, see the notes on the accor	mpanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.					
3. With regard to the protest against payment of (an) additions	nal fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been to request to forward the texts of both the protest and the d	transmitted to the International Bureau together with the applicant's decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applica	cant will be notified as soon as a decision is made.				
4. Reminders Shortly after the expiration of 18 months from the priority date, the Bureau. If the applicant wishes to avoid or postpone publication, and claim, must reach the International Bureau as provided in Rules 90bi preparations for international publication.	notice of withdrawal of the international application, or of the priority				
The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of preliminary examination report has been or is to be established. The before the expiration of 30 months from the priority date.	of such comments to all designated Offices unless an international hese comments would also be made available to the public but not				
Within 19 months from the priority date, but only in respect of examination must be filed if the applicant wishes to postpone the ent some Offices even later); otherwise, the applicant must, within 20 n into the national phase before those designated Offices.	try into the national phase until 30 months from the priority date (in				
In respect of other designated Offices, the time limit of 30 months (or	· · · · · · · · · · · · · · · · · · ·				
See the Annex to Form PCT/IB/301 and, for details about the appli Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide,				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Authorized officer Calerie Bell-Harrisf, James Wilson Ell. NESIELEL Telephone No. (571) 272-1600				

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference UCSD1690-1WO	FOR FURTHER ACTION		orm PCT/ISA/220 c applicable, item 5 below.		
International application No. PCT/US04/29880	International filing date (day/m 10 September 2004 (10.09.200		(Earliest) Priority Date (day/month/year) 12 September 2003 (12.09.2003)		
Applicant THE REGENTS OF THE UNIVERSITY OF					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of					
5. With regard to the abstract, the text is approved as subn	nitted by the applicant.				
			as it appears in Box No. IV. The applicant h report, submit comments to this Authority.		
	applicant. Authority, because the applicant Authority, because this figure be	failed to sugge	est a figure.		

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/29880

IPC(7) US CL According to B. FIELI Minimum do U.S.: 51	SIFICATION OF SUBJECT MATTER : A61K 31/70; C07H 15/00 : 514/32, 37, 41, 459, 460; 536/13.2, 13.3, 13.7, 1 International Patent Classification (IPC) or to both national SEARCHED cumentation searched (classification system followed be 4/32, 37, 41, 459, 460; 536/13.2, 13.3, 13.7, 14, 15, 18 on searched other than minimum documentation to the	ional classification and IPC by classification symbols) 8.5	n the fields searched	
Electronic da	ta base consulted during the international search (name	e of data base and, where practicable, sear	rch terms used)	
CAS ONLIN				
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.	
x	Citation of document, with indication, where ap US 4,749,800 A (JOBE et al) 7 June 1988 (07.06.198 3, lines 1-4.		Relevant to claim No. 1-5, 7 and 9	
	Special categories of cited documents:	"T" later document published after the inter		
	defining the general state of the art which is not considered to be of	and not in conflict with the application principle or theory underlying the inven		
	relevance plication or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be considere when the document is taken alone		
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the cleans decreased to involve an inventive step with one or more other such documents	when the document is combined	
"O" documen	referring to an oral disclosure, use, exhibition or other means	to a person skilled in the art	, saca communication oscilla covintis	
	t published prior to the international filing date but later than the ate claimed	"&" document member of the same patent for	amily	
Date of the actual completion of the international search Date of mailing of the international search report				
13 July 2005 (13.07.2005)				
Name and mailing address of the ISA/US Authorized officer				
Cos	il Stop PCT, Attn: ISA/US mmissioner for Patents D. Box 1450	James Wilson ELLI PESELEV		
Alc	xandria, Virginia 22313-1450 o. (703) 305-3230	Telephone No. (571) 272-1600		

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

INTERNATION	NAL SEARCH	ING AUTHO	DRITY			
INTERNATIONAL SEARCHING AUTHORITY To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133			PCT			
		WRITTEN OPINION OF THE				
				INTERNATIO	ONAL SEARCHING AUTHORITY	
					(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	3.0 JUL 500A	
Applicant's or agent's file reference				FOR FURTHER ACTION See paragraph 2 below		
UCSD1690-1	application No.		International filing date (l day/month/year)	Priority date (day/month/year)	
PCT/US04/29	9880		10 September 2004 (10.0	9.2004)	12 September 2003 (12.09.2003)	
International I	Patent Classific	ation (IPC)	or both national classificati	on and IPC		
IPC(7): A61K	31/70; C07H	1 <i>5</i> /00 and US	S CL: 514/32, 37, 41, 459,	460; 536/13.2, 13.3,	13.7, 14, 15, 18.5	
Applicant	· · · · · · · · · · · · · · · · · · ·		<u></u>			
THE REGEN	TS OF THE U	NIVERSITY	OF CALIFORNIA			
1. This opin	nion contains in	dications rela	ating to the following item	s:		
В	Box No. I Basis of the opinion					
В	Box No. II	Priority				
В	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
В	Box No. IV	Lack of unity of invention				
⊠ B	Box No. V		ned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial ability; citations and explanations supporting such statement			
В	Box No. VI	Certain doc	cuments cited	ited		
B	Box No. VII	Certain def	ects in the international ap	nal application		
B	Box No. VIII Certain observations on the international application					
2. FURTI	HER ACTIO	N				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/US Authorized officer / (a: Canua) Republican						
Mail Stop PCT, Attn: ISA/US Commissioner for Patents James Wilson Ell, PESELEU				Vallelle Dell-Ham		
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571) 27 2-1600				571)272-1600		

P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

From the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	

PCT/US04/29880 Box No. I Basis of this opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: type of material a sequence listing table(s) related to the sequence listing format of material in written format in computer readable form time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/29880

Box No. V Reasoned statement under Rule	43 his 1(a)(i) with regar	rd to novelty inventive st	en or industrial
applicability; citations and expl			
1. Statement			
Novelty (N)	Claims 6,8 and 10)-30	YES
	Claims 1-5, 7 and	9	NO
Inventive step (IS)	Claims 6, 8 and 10	1-30	YES
mvenave step (15)	Claims <u>1-5, 7 and</u>		NO
			
Industrial applicability (IA)	Claims <u>1-30</u> Claims <u>NONE</u>		YES NO
	CIMIND INDIVID	······································	
2. Citations and explanations:			
Claims 1-5, 7 and 9 lack novelty under PCT Article	33(2) as being anticipated l	by Jobe et al (U.S. Patent No.	4,749,800). Jobe et al
disclose the claimed compounds in column 2, lines	49-68 and column 3, lines 1	-4.	
Claims 6, 8 and 10-30 meet the criteria set out in Poclaimed compositions and methods.	CT Article 33(2)-(3), becaus	se the prior art does not teach o	or fairly suggest the
Claims 1-30 meet the criteria set out in PCT Article	: 33(4), and thus meet indust	trial applicability because the	subject matter claimed can
be made or used in industry.		and approved the	susjeet iimuot etamiou eta
	•		•
	•		
	•		

NOTESTO FORM PCT/ISA/320

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is can::elled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions. Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing, the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide,